

# BOOKWISE (An android app for exchanging and selling textbooks)

## Use Case for Credit opportunity: **Cancelling a Reservation**

### Project Summary:

An Android App where students can post their textbooks for sale; users (students) would be able to search for a book, buy it or exchange it for a book that the other user (seller) requires. Books will categorized for different subjects and will have information of condition, edition, picture of cover page and location. All data will stored in a database.

### Use Case List

Use Case ID	Primary Actor	Use Cases
UC-1.1.1	General User	Register
UC-1.1.2	General User	Sign In
UC-1.1.3	General User	Logout
UC-1.1.4	General User	Provide Valid E-mail Address
UC-1.1.5	General User	Provide Valid Password
UC-1.1.6	General User	Provide Contact Information
UC-1.2.1	Buyer	Search For Books
UC-1.2.2	Buyer	Reserve Books
UC-1.2.3	Buyer	Cancel Reservation
UC-1.3.1	Seller	Posting Books
UC-1.3.2	Seller	Reject Reservation
UC-1.3.3	Seller	Delete Posting

### Use cases

<b>Use Case ID:</b>	UC-1.1.1		
<b>Use Case Name:</b>	Register		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	General User (Any User)		

<b>Description:</b>	This use case allow a user to register for a new account
<b>Frequency of Use:</b>	Once per User
<b>Preconditions:</b>	User does not have an account
<b>Postconditions:</b>	User has an account
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User visit the register page</li> <li>2. User provide valid @colorado.edu E-mail address</li> <li>3. User create valid password (at least 8 digits)</li> <li>4. Provide contact information (Mandatory/optional)</li> <li>5. User click on register button</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. E-mail address is invalid</li> <li>2. Password is invalid</li> <li>3. Mandatory contact information not provided</li> <li>4. Account Already exist</li> </ol>
<b>Includes:</b>	Provide Valid Email Address Create Valid Password Provide Contact Information
<b>Special Requirements:</b>	None
<b>Assumptions:</b>	User has internet access
<b>Notes and Issues:</b>	None

<b>Use Case ID:</b>	UC-1.1.2		
<b>Use Case Name:</b>	Sign In		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	General User (Any User)		
<b>Description:</b>	This use case allow a user to sign in with his/her account		
<b>Frequency of Use:</b>	Every time switch account or sign in to a new device		
<b>Preconditions:</b>	User was logged out		
<b>Postconditions:</b>	User is signed in		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User visit the sign in page</li> <li>2. User provide valid @colorado.edu E-mail address</li> <li>3. User provide valid password</li> <li>4. User click on sign in button</li> </ol>		

<b>Exceptions:</b>	1. E-mail address is invalid 2. Password is invalid
<b>Includes:</b>	Provide Valid E-mail Address Provide Valid Password
<b>Special Requirements:</b>	None
<b>Assumptions:</b>	User has internet access
<b>Notes and Issues:</b>	None

<b>Use Case ID:</b>	UC-1.1.3		
<b>Use Case Name:</b>	Log out		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	General User (Any User)		
<b>Description:</b>	This use case allow a user to log out his/her account		
<b>Frequency of Use:</b>	Every time user wants to log out		
<b>Preconditions:</b>	User was signed in		
<b>Postconditions:</b>	User is logged out		
<b>Normal Flow:</b>	1. User click on log out button		
<b>Exceptions:</b>	None		
<b>Includes:</b>	None		
<b>Special Requirements:</b>	None		
<b>Assumptions:</b>	User has internet access		
<b>Notes and Issues:</b>	None		

<b>Use Case ID:</b>	UC-1.1.4		
<b>Use Case Name:</b>	Provide Valid E-mail Address		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	General User (Any User)		

<b>Description:</b>	This use case allow a user to provide a valid E-mail address		
<b>Frequency of Use:</b>	Every time user wants to register or sign in		
<b>Preconditions:</b>	Email address not provided		
<b>Postconditions:</b>	Email address provided		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User click on E-mail address input field</li> <li>2. User type in E-mail address</li> </ol>		
<b>Exceptions:</b>	None		
<b>Includes:</b>	None		
<b>Special Requirements:</b>	None		
<b>Assumptions:</b>	User has internet access		
<b>Notes and Issues:</b>	None		
<b>Use Case ID:</b>	UC-1.1.5		
<b>Use Case Name:</b>	Provide Valid Password		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	General User (Any User)		
<b>Description:</b>	This use case allow a user to provide a valid password		
<b>Frequency of Use:</b>	Every time user wants to sign in		
<b>Preconditions:</b>	Password not provided		
<b>Postconditions:</b>	Password provided		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User click on the password input field</li> <li>2. User type in the password</li> </ol>		
<b>Exceptions:</b>	None		
<b>Includes:</b>	None		
<b>Special Requirements:</b>	None		
<b>Assumptions:</b>	User has internet access		
<b>Notes and Issues:</b>	None		
<b>Use Case ID:</b>	UC-1.1.6		

<b>Use Case Name:</b>	Provide Contact Information		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	General User (Any User)		
<b>Description:</b>	This use case allow a user to provide his/her contact information		
<b>Frequency of Use:</b>	Every time user wants to register		
<b>Preconditions:</b>	Contact information (mandatory/optional) not provided		
<b>Postconditions:</b>	Contact information (mandatory/optional) provided		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User click on the contact information input field</li> <li>2. User type in the contact information</li> </ol>		
<b>Exceptions:</b>	None		
<b>Includes:</b>	None		
<b>Special Requirements:</b>	None		
<b>Assumptions:</b>	User has internet access		
<b>Notes and Issues:</b>	None		

<b>Use Case ID:</b>	UC-1.2.1		
<b>Use Case Name:</b>	Search Books		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	Buyer		
<b>Description:</b>	This use case allow a Buyer to search for book he/she wants to buy		
<b>Frequency of Use:</b>	Every time Buyer wants to buy a book		
<b>Preconditions:</b>	Buyer was on search page		
<b>Postconditions:</b>	Buyer has a list of results		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Buyer visit the search page</li> <li>2. Buyer provide title/author/edition</li> <li>3. Buyer select sort with distance/price option</li> <li>4. Buyer click on search</li> </ol>		
<b>Exceptions:</b>	None		

<b>Extends:</b>	Sort Results With Distance Sort Results With Price
<b>Special Requirements:</b>	None
<b>Assumptions:</b>	User has internet access
<b>Notes and Issues:</b>	None

<b>Use Case ID:</b>	UC-1.2.2		
<b>Use Case Name:</b>	Reserve Books		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	Buyer		
<b>Description:</b>	This use case allow a Buyer to reserve a book he/she wants to buy		
<b>Frequency of Use:</b>	Every time Buyer found a book he/she wants to buy		
<b>Preconditions:</b>	Buyer searched book and has a list of results, but does not have reservation on the book		
<b>Postconditions:</b>	Buyer has reservation/on the wait list of the book		
<b>Normal Flow:</b>	1. Buyer click on the reserve button		
<b>Exceptions:</b>	None		
<b>Includes:</b>	None		
<b>Special Requirements:</b>	None		
<b>Assumptions:</b>	User has internet access		
<b>Notes and Issues:</b>	None		

<b>Use Case ID:</b>	UC-1.2.3		
<b>Use Case Name:</b>	Cancel Reservation		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	Buyer		
<b>Description:</b>	This use case allow a Buyer to cancel a reservation he/she made		

	before
<b>Frequency of Use:</b>	Every time Buyer decide not to buy a book
<b>Preconditions:</b>	Buyer has a reservation on a book
<b>Postconditions:</b>	Buyer does not have a reservation on the book
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Buyer visit the reserved book page</li> <li>2. Buyer click on the cancel reservation button</li> </ol>
<b>Exceptions:</b>	None
<b>Includes:</b>	None
<b>Special Requirements:</b>	None
<b>Assumptions:</b>	User has internet access
<b>Notes and Issues:</b>	None

<b>Use Case ID:</b>	UC-1.3.1		
<b>Use Case Name:</b>	Post Book		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	Seller		
<b>Description:</b>	This use case allow a seller to post a book he/she wants to sell		
<b>Frequency of Use:</b>	Every time a Seller has a book to sell		
<b>Preconditions:</b>	Seller has not posted the book for sale		
<b>Postconditions:</b>	Seller has posted the book for sale		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Seller visit the book posting page</li> <li>2. Seller provide book title/author/edition</li> <li>3. Seller click on post button</li> </ol>		
<b>Exceptions:</b>	None		
<b>Includes:</b>	None		
<b>Special Requirements:</b>	None		
<b>Assumptions:</b>	User has internet access		

<b>Notes and Issues:</b>	None
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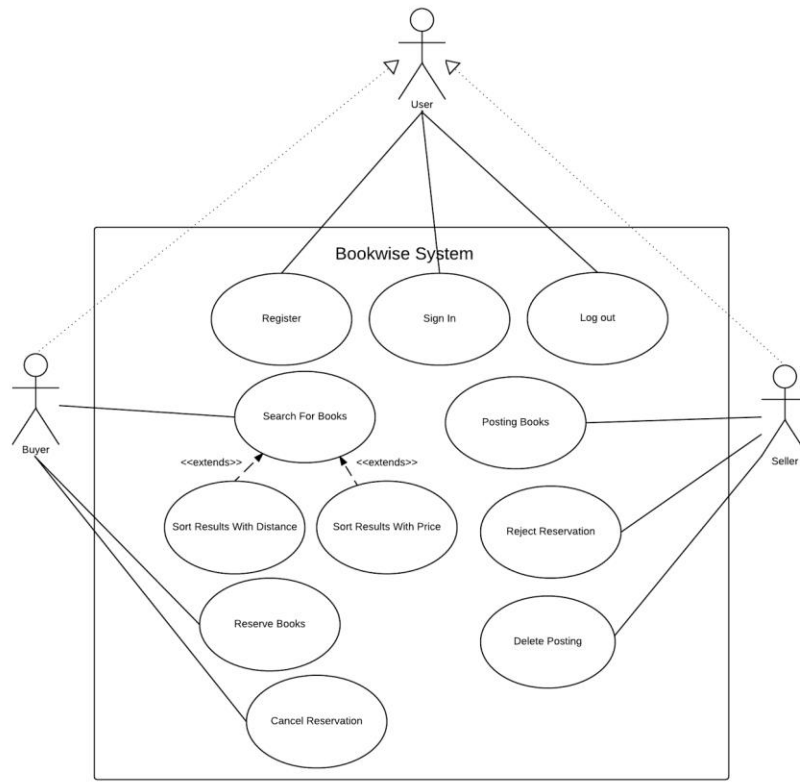
<b>Use Case ID:</b>	UC-1.3.2		
<b>Use Case Name:</b>	Reject Reservation		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	Seller		
<b>Description:</b>	This use case allow a seller to reject a reservation a buyer made		
<b>Frequency of Use:</b>	Every time a seller decide not to sell the book to a buyer who made a reservation		
<b>Preconditions:</b>	The buyer has a reservation on the book		
<b>Postconditions:</b>	The buyer no longer has a reservation on the book		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Seller visit the posted book page</li> <li>2. Seller click on reject reservation button</li> </ol>		
<b>Exceptions:</b>	None		
<b>Includes:</b>	None		
<b>Special Requirements:</b>	None		
<b>Assumptions:</b>	User has internet access		
<b>Notes and Issues:</b>	None		

<b>Use Case ID:</b>	UC-1.3.3		
<b>Use Case Name:</b>	Delete Posting		
<b>Created By:</b>	Alimulla Shaik	<b>Last Updated By:</b>	Alimulla Shaik
<b>Date Created:</b>	Nov 9, 2015	<b>Last Revision Date:</b>	Nov 9, 2015
<b>Actors:</b>	Seller		
<b>Description:</b>	This use case allow a seller to delete a book he/she posted		
<b>Frequency of Use:</b>	Every time a seller decide not to sell the book		
<b>Preconditions:</b>	The book was posted for sale		
<b>Postconditions:</b>	The book is no longer posted for sale		

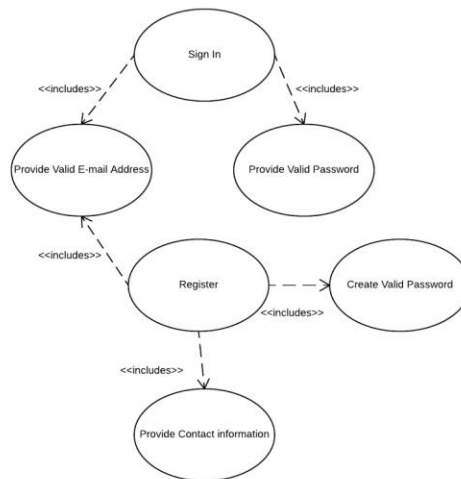


<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Seller visit the posted book page</li> <li>2. Seller click on delete posting button</li> </ol>
<b>Exceptions:</b>	None
<b>Includes:</b>	None
<b>Special Requirements:</b>	None
<b>Assumptions:</b>	User has internet access
<b>Notes and Issues:</b>	None

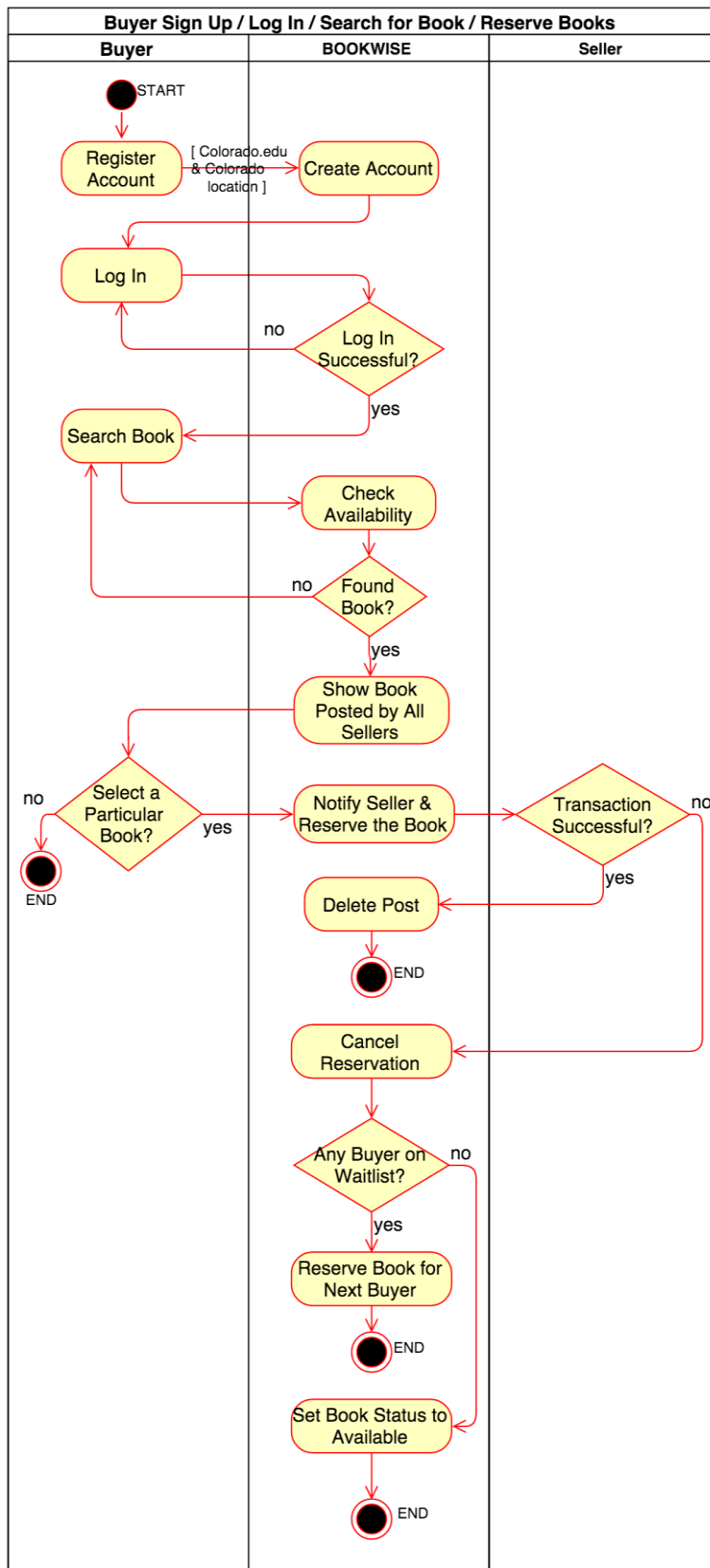
Use case diagram for cancelling reservation:



Sub-Diagram



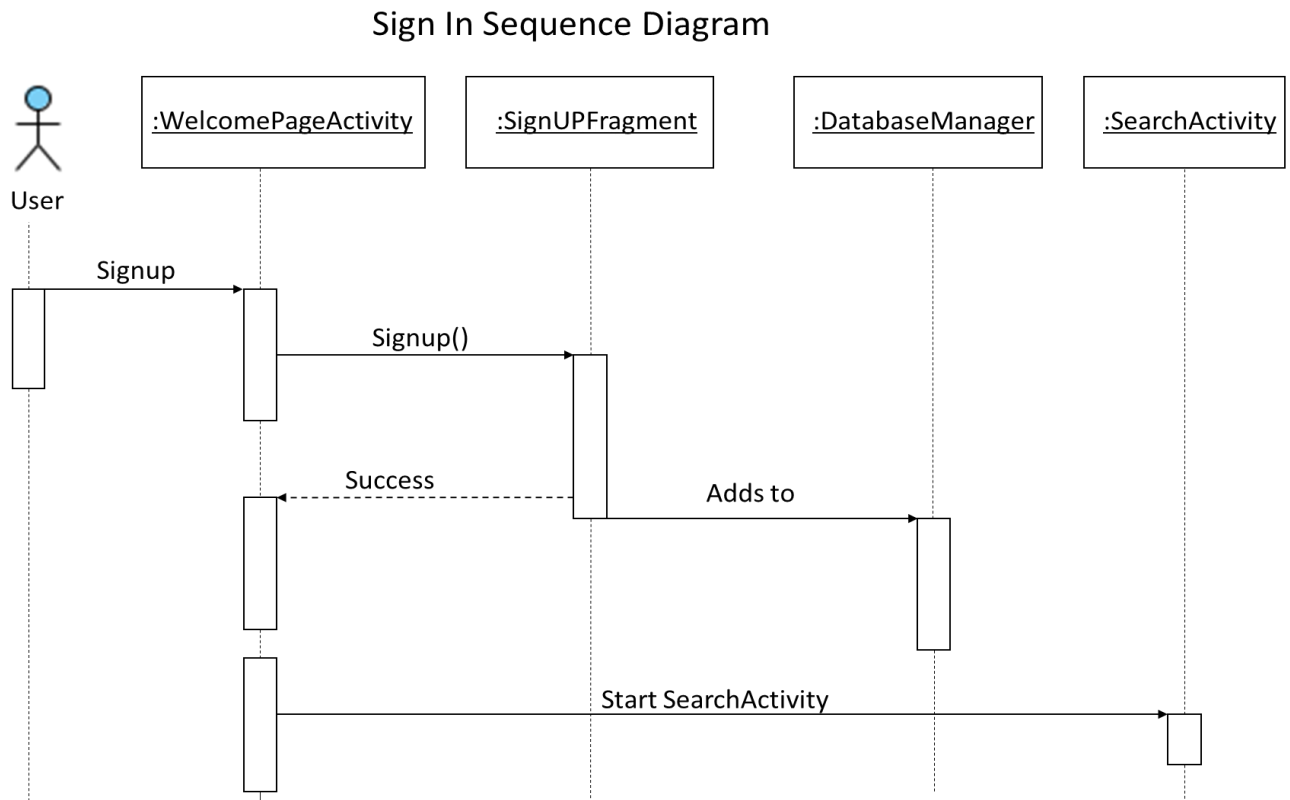
### Activity Diagram for Canceling Reservation:



### User Interactions:

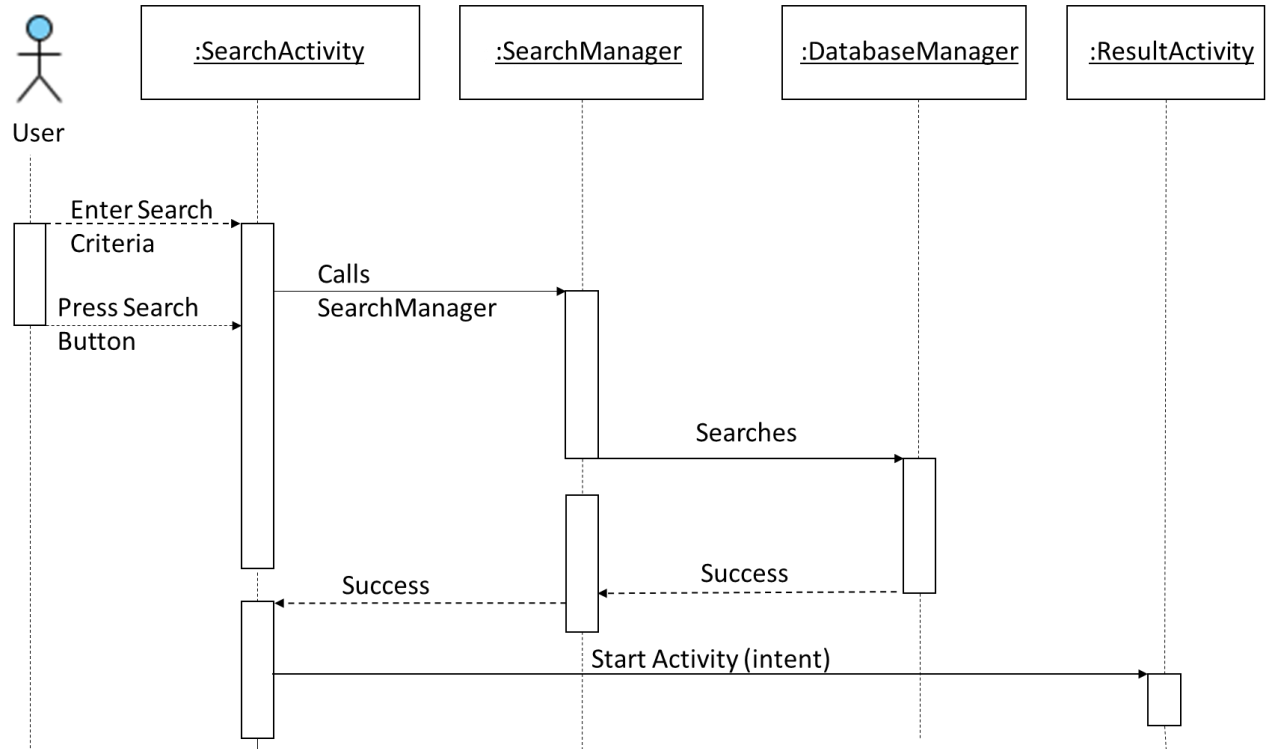
Cancelling reservation use case includes the interactions of sign in, search book, reserve books and cancelling reservation. And the same is described below.

Sign In Sequence Diagram:



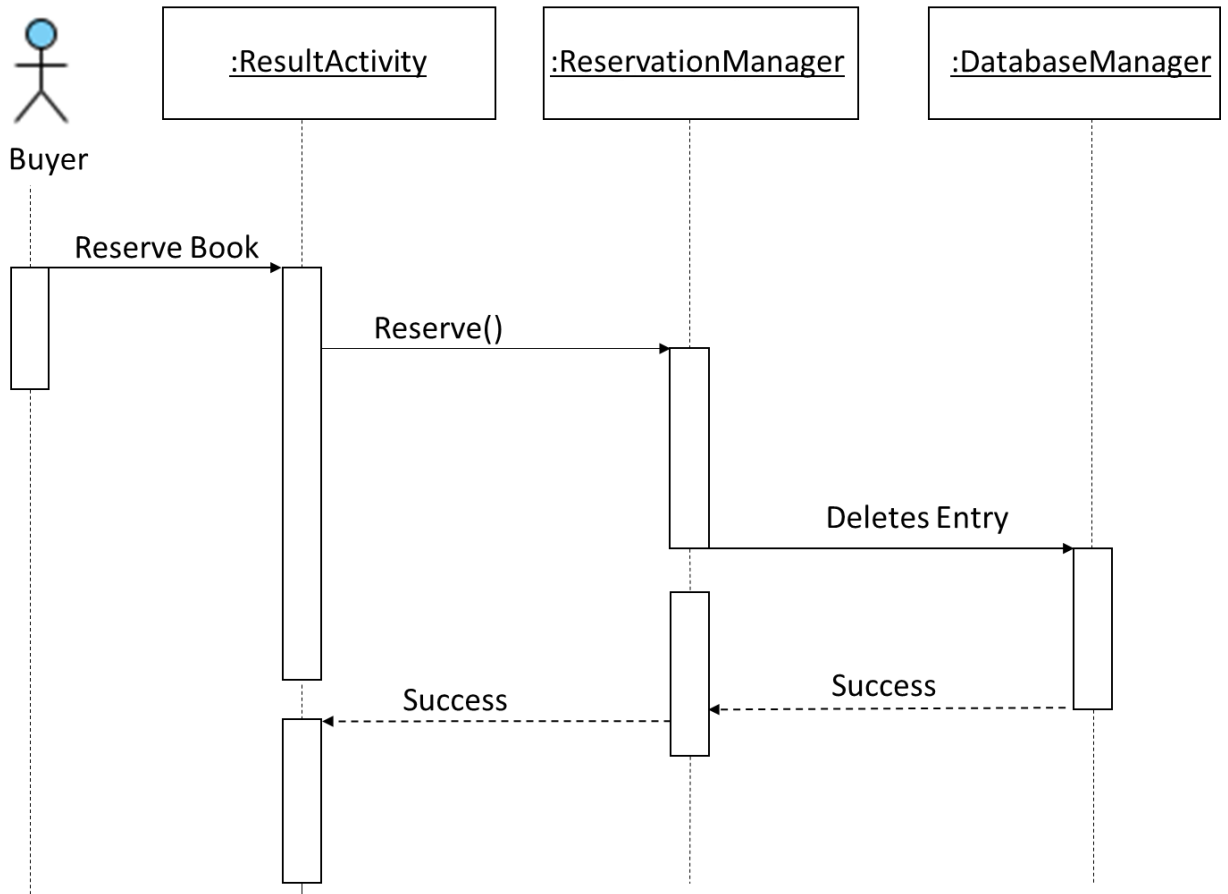
Search book sequence diagram:

### Search Book Sequence Diagram



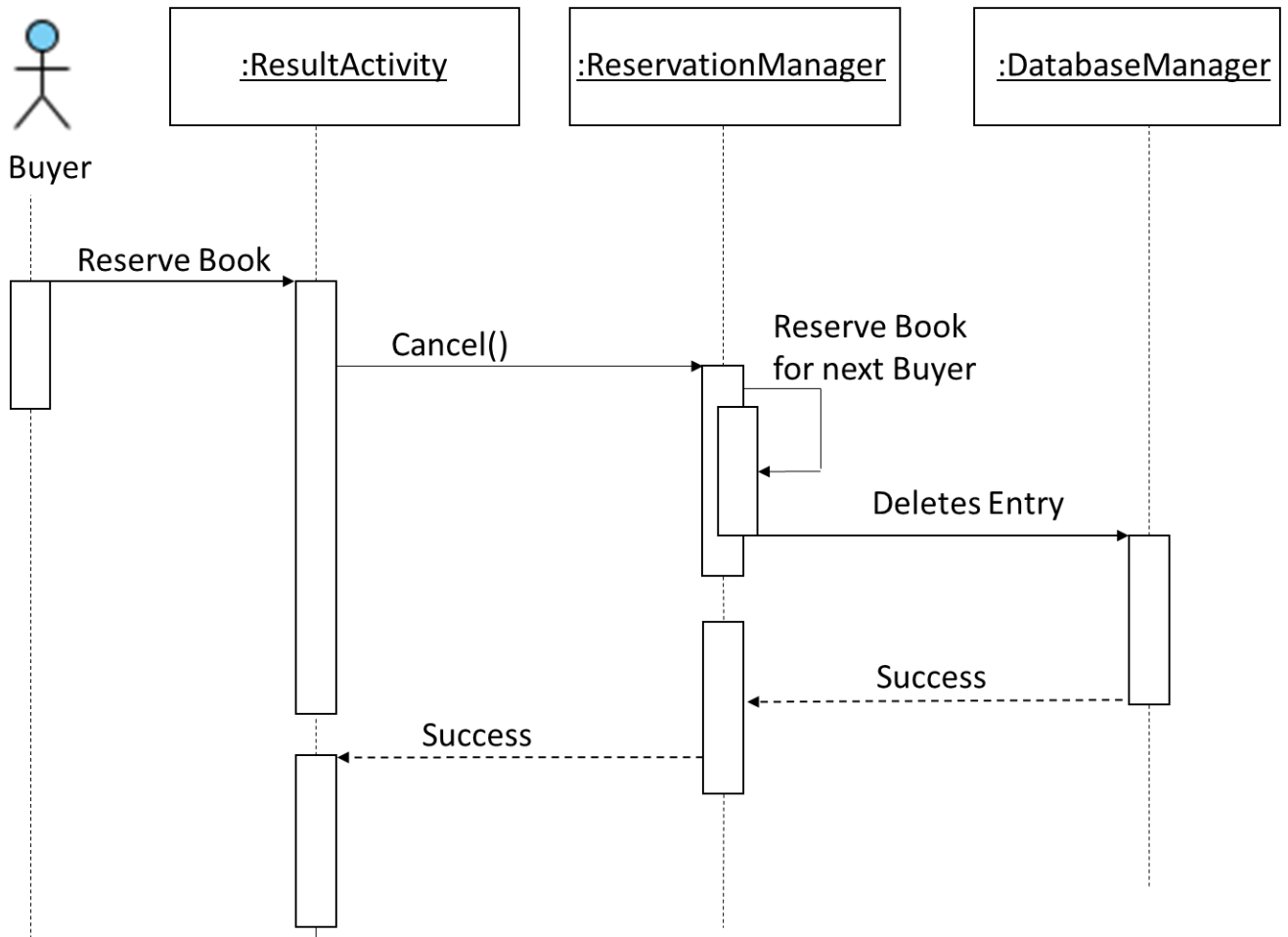
Reserve books sequence diagram:

## Reserve Book Sequence Diagram



Cancelling Reservation Sequence Diagram:

## Cancelling Reservation Sequence Diagram



## Class Diagram:

